282

BRIDGE RAILING ELEVATION

₵ Rail Bar Splice
2'-0"
Post spacing 8'-0" Max
Steel posts
Tubular rails
Expansion joint
1'-3" Min
Construction joint
1'-0" Min
Sidewalk

POST BASE PLATE PLAN

1'-2"
2" 10" 2"
1 3/16"
10"
1 3/16"
1 1/4" Dia hole Typ
₵ ℄ 1" x 10" x 1'-2"

SPACER PLATE PLAN

1'-1"
1 1/2" 1 1/2"
₵ ℄ 3/8" x 9 1/2" x 1'-1"
1 1/2"
9 1/2"
1 1/2"
₵ .5" Dia hole
1 3/16" Dia hole Typ

POST BASE WELD DETAIL

7/16
5/16

SIDEWALK REINFORCING PLAN

#5 @ 12 Typ
#5 Stirrups @ 12 Tot 3
#5 @ 5'-0" Min
Spacer plate
#5 Full length of sidewalk

BOTTOM VIEW RAIL BAR SPLICE DETAIL

1'-8" Splice tube
2" 4" 4" 4" 4" 2"
5/8" Dia x 1 3/4" Cap screws Typ
3/4" or match deck joints
₵ Rail bar splice

RAIL BAR SPLICE SECTION

Splice tube
Lock nut
1/16
3/16
1/8
3/16
₵ 11/16" Dia hole in plate and 13/16" Dia hole in railbar for cap screw and plain hardened washer

TYPICAL SECTION

1'-6"
1/2"
Rail bars TS 4 x 4 x 1/4 and TS 8 x 4 x 5/16
W6 x 24 Rail post
3'-5 5/32"
1'-2"
11 1/2"
9 1/2"
7"
3'-6"
2'-0" Level
#5 Tot 5 Evenly spaced
1/8"
#5 Bar
1" Chamfer
3 #5
1'-4"
Stirrups at each post
#5 Stirrup
1'-0"
1'-0" @ 12
6'-6"
Bridge deck or FG
1"
8"
1"
1" Dia holes in post for 3/4" Dia x 2" full thread stud with washer and lock nut Typ

ELEVATION

₵ Rail post
1 3/4" 1 3/4"
2"
2"
8"
2"
2"

RAIL POST ANCHORAGE

Heavy hex nut and washer Typ
4-1" Dia all thread Typ
Post base plate
3"
7"
Hex jamb nut Typ
Spacer plate
Hex nut Typ

NOTES:

1. All exposed cuts or sheared edges shall be rounded and free of burrs.
2. Rail posts shall be set normal to grade.
3. Lengths of rail bar shall be attached to a minimun of two (2) rail posts.
4. All structural steel shall be galvanized after fabrication.
5. Rail post anchoring nuts shall be tightened to a snug fit and given additional 1/8 turn.
6. Holes in posts for rail bar attachment may be field drilled. Holes shall be coated with an approved zinc-rich paint prior to erection.
7. This barrier is to be used only for speeds of 45 mph or less. For speeds greater than 45 mph, pedestrians should be protected by a separation traffic barrier.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CALIFORNIA ST-40 BRIDGE RAIL (SHEET 1 OF 2)

NO SCALE

B11-66

1-12-06